

10/25/00



## PATENT APPLICATION TRANSMITTAL LETTER

Docket Number (Optional)

USPTO  
10/25/00  
109/695272

to the Commissioner of Patents and Trademarks:

Transmitted herewith for filing under 35 U.S.C. 111 and 37 CFR 1.53 is the patent application of

Mr. Florent Bergeronentitled Mechanical device used to make different exercises on the ground

Enclosed are:

- 4 pages of written description, claims and abstract.
- 12 sheets of drawings.
- an assignment of the invention to \_\_\_\_\_
- executed declaration of the inventors.
- a certified copy of a \_\_\_\_\_ application.
- associate power of attorney.
- a verified statement to establish small entity status under 37 CFR 1.9 and 1.27.
- information disclosure statement
- preliminary amendment
- other: \_\_\_\_\_

## CLAIMS AS FILED

	NUMBER FILED	NUMBER EXTRA	RATE	FEE
<b>BASIC FEE</b>			<b>\$760</b>	<b>\$760</b>
<b>TOTAL CLAIMS</b>	- 20 =	*	x \$18	
<b>INDEPENDENT CLAIMS</b>	- 3 =	*	x \$78	
<b>MULTIPLE DEPENDENT CLAIM PRESENT</b>			<b>\$260</b>	
* NUMBER EXTRA MUST BE ZERO OR LARGER			<b>TOTAL</b>	<b>\$ 760</b>
			If applicant has small entity status under 37 CFR 1.9 and 1.27, then divide total fee by 2, and enter amount here.	<b>SMALL ENTITY TOTAL</b> <b>\$ 380</b>

- A check in the amount of \$380.00 to cover the filing fee is enclosed.
- The Commissioner is hereby authorized to charge and credit Deposit Account No. \_\_\_\_\_ as described below. I have enclosed a duplicate copy of this sheet.
- Charge the amount of \$ \_\_\_\_\_ as filing fee.
  - Credit any overpayment.
  - Charge any additional filing fees required under 37 CFR 1.16 and 1.17.
  - Charge the issue fee set in 37 CFR 1.18 at the mailing of the Notice of Allowance, pursuant to 37 CFR 1.311(b).

09/27/00

Date

Signature

Mr. Florent Bergeron  
 Typed or printed name  
6225, street Aster, Quebec,  
 Address  
(Quebec) Canada, G2C 1Z3

VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) & 1.27(b))--INDEPENDENT INVENTOR

Docket Number (Optional)

Applicant or Patentee: Mr. Florent Bergeron

Serial or Patent No.: \_\_\_\_\_

Filed or Issued: \_\_\_\_\_

Title: Mechanical Device used to make different exercises on the ground

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- the specification filed herewith with title as listed above.  
 the application identified above.  
 the patent identified above.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- No such person, concern, or organization exists.  
 Each such person, concern or organization is listed below.

Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
Florent Bergeron		
Signature of inventor	Signature of inventor	Signature of inventor
Date 09/27/00	Date	Date

**TITLE:** Mechanical device used to make different exercises on the ground.

**BACKGROUND OF THE INVENTION:**

**1) Field of invention:**

The present invention relates to a mechanical device allowing to make different exercises on the ground, and adjustable according to user's needs.

**2) Description of the related art:**

At the present time some devices are sold on the market but they are really different from my disclosure.

**BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S):**

Figure 1 represents a perspective view of the device allowing to make different exercises on the ground.

Figure 2 represents a top plan view of the vertical and tubular bar curved at its end, including a rotary part and a small pulley by which the steel wire is drawn in several directions without friction.

Figure 3 represents a plan view of the system allowing the adjustment of the vertical bar to the desired position.

Figure 4 represents a top perspective view inwardly of system for the device.

Figure 5 represents a top perspective view inwardly of system for the device showing the spring in a different position.

Figure 6 represents a plan view of system allowing to adjust the desired position according to user's needs.

Figure 7 represents a perspective view of the main large pulley fixed to a transversal bar with the frame of the device.

Figure 8 represents a perspective view of the main large pulley allowing to steel wire to turn two times around of the pulley.

Figures 9a, b, c and d, represent the side elevational views of the device showing the user in different positions.

**DETAILED DESCRIPTION OF THE INVENTION:**

As shown in figure 1, a mechanical device allowing to make different exercises on the ground includes a rigid frame (10) covered with a motionless cushion (16) on which the user can be installed comfortably, a vertical bar (11) curved at its end and adjustable at different positions, and a belt (17) is used to join the arm wrist or leg ankle to steel wire (5). As shown in figure 2, the curved part of the vertical bar (11) includes a rotary part (12) wherein a pulley (13) allows to steel wire (5) to pass without friction inside of the pulley anchored (13) in the rotary part (12) wherein turns freely by allowing to steel wire (5) to be drawn in different directions. As shown in figure 3, the small holes (19) allow to change the adjustment of the vertical bar (11) by blocking the vertical bar (11) with a pin metal (14) wherein is inserted in the hole of the vertical bar (11) into the desired position. As show in figure 4, inwardly the device system includes a spring (6) wherein allows to steel wire (5) to be tensioned, the spring (6) is fixed to a perforated frame part (3) in a

semi-circle of device by a stem (7) welded to spring (6) and joined to a movable part (8) by a pin metal (9) wherein allows the adjustment of tensioned spring (6), the spring end (6) is fixed to the bar (1) wherein is anchored into the frame of the device so as to carry out a rotation parallel with the floor, whereas the other end of the bar (1) is fixed to a steel wire (5) making two turns around of the main large pulley (4) wherein a transversal bar (18) is anchored to the frame of the device, and the steel wire (5) is directed towards two other small pulleys (2) before to pass inside of the vertical bar (11). As shown in figure 5, inwardly the device system includes a spring (6) showing a different position such that shown in figure 4. As shown in figure 6, a perforated frame part (3) in a semi-circle allows the adjustment of tensioned spring (6) welded to a stem (7) having legs and joined to a movable part (8) to the perforated frame part (3) of the device by a pin metal (9) wherein allows the adjustment of tensioned spring (6). As shown in figure 7, a main large pulley (4) is fixed at a transversal bar (18) to the frame of the device. As shown in figure 8, a main large pulley (4) allows to steel wire (5) to make two turns around of the main pulley (4) by giving a pulley arch effect. As shown in figures 9a, b, c and d, the user is installed comfortably onto the device in different positions.

## **CLAIMS:**

**The embodiments of the invention in which an exclusive property or privilege is claimed, are defined as follows:**

- 1:** A mechanical device used to make different exercises on the ground comprising:
    - a rigid frame covered with a motionless cushion;
    - a vertical tubular bar curved at its end, wherein a pulley allows to steel wire to pass without friction inside of the pulley anchored into a rotary part, wherein turns freely by allowing to steel wire to be drawn in several directions;
    - and a belt using to join the arm wrist or leg ankle to steel wire.
  - 2:** A mechanical device according to claim **1**, wherein said curved part of said vertical and tubular bar comprises a rotary part wherein said pulley allows to said steel wire to pass without friction inside of said pulley anchored into said rotary part wherein turns freely in all directions.
  - 3:** A mechanical device according to claims **1** and **2**, wherein said small holes allow to change the adjustment of said vertical bar by blocking said bar with a pin metal wherein is inserted into the hole of said vertical bar into the other small holes at the desired position.
  - 4:** A mechanical device according to claim **1**, wherein said inwardly system having a spring allowing to said steel wire to be tensioned wherein said spring is fixed to a perforated frame part in a semi-circle of said device, welded to said stem having legs and joined to said movable part to said perforated frame part in a semi-circle of said device with said pin metal wherein allows the adjustment of said tensioned spring, wherein said spring end is hanged up at the end of the bar anchored into said frame of said device so as to carry out a rotation parallel with the floor, and wherein the other end of said bar is fixed to said steel wire.
  - 5:** A mechanical device according to claim **4**, wherein said inwardly system having said spring allowing to said steel wire to be tensioned wherein said steel wire makes two turns around of said main large pulley by giving a pulley arch effect, wherein said transversal bar is anchored to said frame of said device, and wherein said steel wire is directed towards two other small pulleys before to pass inside of said vertical and tubular bar.

***ABSTRACT OF THE DISCLOSURE:***

The present invention relates to a mechanical device allowing to make different exercises on the ground, and adjustable according to user's needs.

**TITLE:** Mechanical device used to make different exercises on the ground.

**BACKGROUND OF THE INVENTION:**

**1) Field of invention:**

The present invention relates to a mechanical device allowing to make different exercises on the ground, and adjustable according to user's needs.

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**BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S):**

Figure 1 represents a perspective view of the device allowing to make different exercises on the ground.

Figure 2 represents a top plan view of the vertical and tubular bar curved at its end, including a rotary part and a small pulley by which the steel wire is drawn in several directions without friction.

Figure 3 represents a plan view of the system allowing the adjustment of the vertical bar to the desired position.

Figure 4 represents a top perspective view inwardly of system for the device.

Figure 5 represents a top perspective view inwardly of system for the device showing the spring in a different position.

Figure 6 represents a plan view of system allowing to adjust the desired position according to user's needs.

Figure 7 represents a perspective view of the main large pulley fixed to a transversal bar with the frame of the device.

Figure 8 represents a perspective view of the main large pulley allowing to steel wire to turn two times around of the pulley.

Figures 9a, b, c and d, represent the side elevational views of the device showing the user in different positions.

**DETAILED DESCRIPTION OF THE INVENTION:**

As shown in figure 1, a mechanical device allowing to make different exercises on the ground includes a rigid frame (10) covered with a motionless cushion (16) on which the user can be installed comfortably, a vertical bar (11) curved at its end and adjustable at different positions, and a belt (17) is used to join the arm wrist or leg ankle to steel wire (5). As shown in figure 2, the curved part of the vertical bar (11) includes a rotary part (12) wherein a pulley (13) allows to steel wire (5) to pass without friction inside of the pulley anchored (13) in the rotary part (12) wherein turns freely by allowing to steel wire (5) to be drawn in different directions. As shown in figure 3, the small holes (19) allow to change the adjustment of the vertical bar (11) by blocking the vertical bar (11) with a pin metal (14) wherein is inserted in the hole of the vertical bar (11) into the desired position. As show in figure 4, inwardly the device system includes a spring (6) wherein allows to steel wire (5) to be tensioned, the spring (6) is fixed to a perforated frame part (3) in a

semi-circle of device by a stem (7) welded to spring (6) and joined to a movable part (8) by a pin metal (9) wherein allows the adjustment of tensioned spring (6), the spring end (6) is fixed to the bar (1) wherein is anchored into the frame of the device so as to carry out a rotation parallel with the floor, whereas the other end of the bar (1) is fixed to a steel wire (5) making two turns around of the main large pulley (4) wherein a transversal bar (18) is anchored to the frame of the device, and the steel wire (5) is directed towards two other small pulleys (2) before to pass inside of the vertical bar (11). As shown in figure 5, inwardly the device system includes a spring (6) showing a different position such that shown in figure 4. As shown in figure 6, a perforated frame part (3) in a semi-circle allows the adjustment of tensioned spring (6) welded to a stem (7) having legs and joined to a movable part (8) to the perforated frame part (3) of the device by a pin metal (9) wherein allows the adjustment of tensioned spring (6). As shown in figure 7, a main large pulley (4) is fixed at a transversal bar (18) to the frame of the device. As shown in figure 8, a main large pulley (4) allows to steel wire (5) to make two turns around of the main pulley (4) by giving a pulley arch effect. As shown in figures 9a, b, c and d, the user is installed comfortably onto the device in different positions.

**CLAIMS:**

**The embodiments of the invention in which an exclusive property or privilege is claimed, are defined as follows:**

- 1: A mechanical device used to make different exercises on the ground comprising:  
a rigid frame covered with a motionless cushion;  
a vertical tubular bar curved at its end, wherein a pulley allows to steel wire to pass without friction inside of the pulley anchored into a rotary part, wherein turns freely by allowing to steel wire to be drawn in several directions;  
and a belt using to join the arm wrist or leg ankle to steel wire.
  - 2: A mechanical device according to claim 1, wherein said curved part of said vertical and tubular bar comprises a rotary part wherein said pulley allows to said steel wire to pass without friction inside of said pulley anchored into said rotary part wherein turns freely in all directions.
  - 3: A mechanical device according to claims 1 and 2, wherein said small holes allow to change the adjustment of said vertical bar by blocking said bar with a pin metal wherein is inserted into the hole of said vertical bar into the other small holes at the desired position.
  - 4: A mechanical device according to claim 1, wherein said inwardly system having a spring allowing to said steel wire to be tensioned wherein said spring is fixed to a perforated frame part in a semi-circle of said device, welded to said stem having legs and joined to said movable part to said perforated frame part in a semi-circle of said device with said pin metal wherein allows the adjustment of said tensioned spring, wherein said spring end is hanged up at the end of the bar anchored into said frame of said device so as to carry out a rotation parallel with the floor, and wherein the other end of said bar is fixed to said steel wire.
  - 5: A mechanical device according to claim 4, wherein said inwardly system having said spring allowing to said steel wire to be tensioned wherein said steel wire makes two turns around of said main large pulley by giving a pulley arch effect, wherein said transversal bar is anchored to said frame of said device, and wherein said steel wire is directed towards two other small pulleys before to pass inside of said vertical and tubular bar.

***ABSTRACT OF THE DISCLOSURE:***

The present invention relates to a mechanical device allowing to make different exercises on the ground, and adjustable according to user's needs.

figure 1

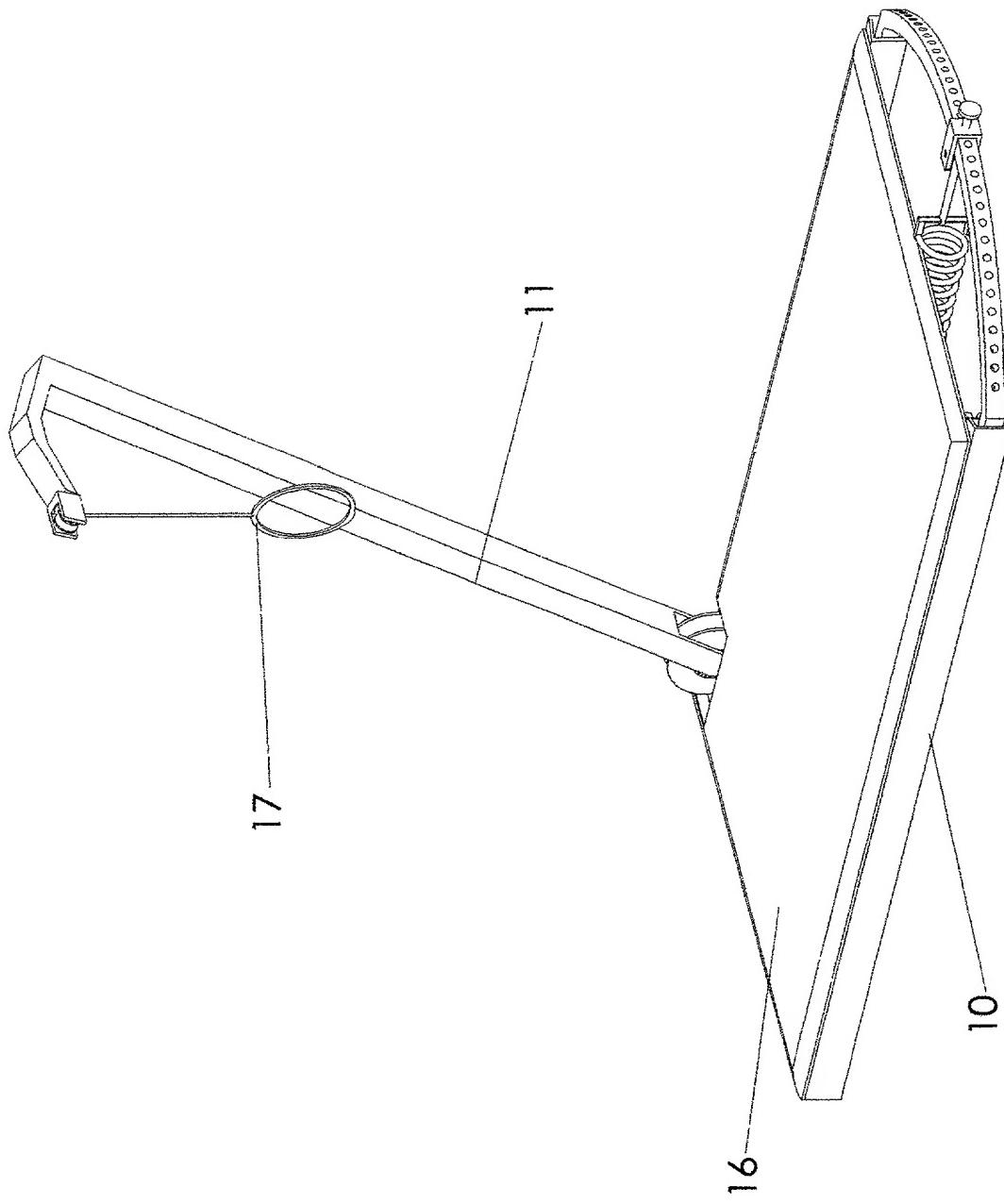


figure 2

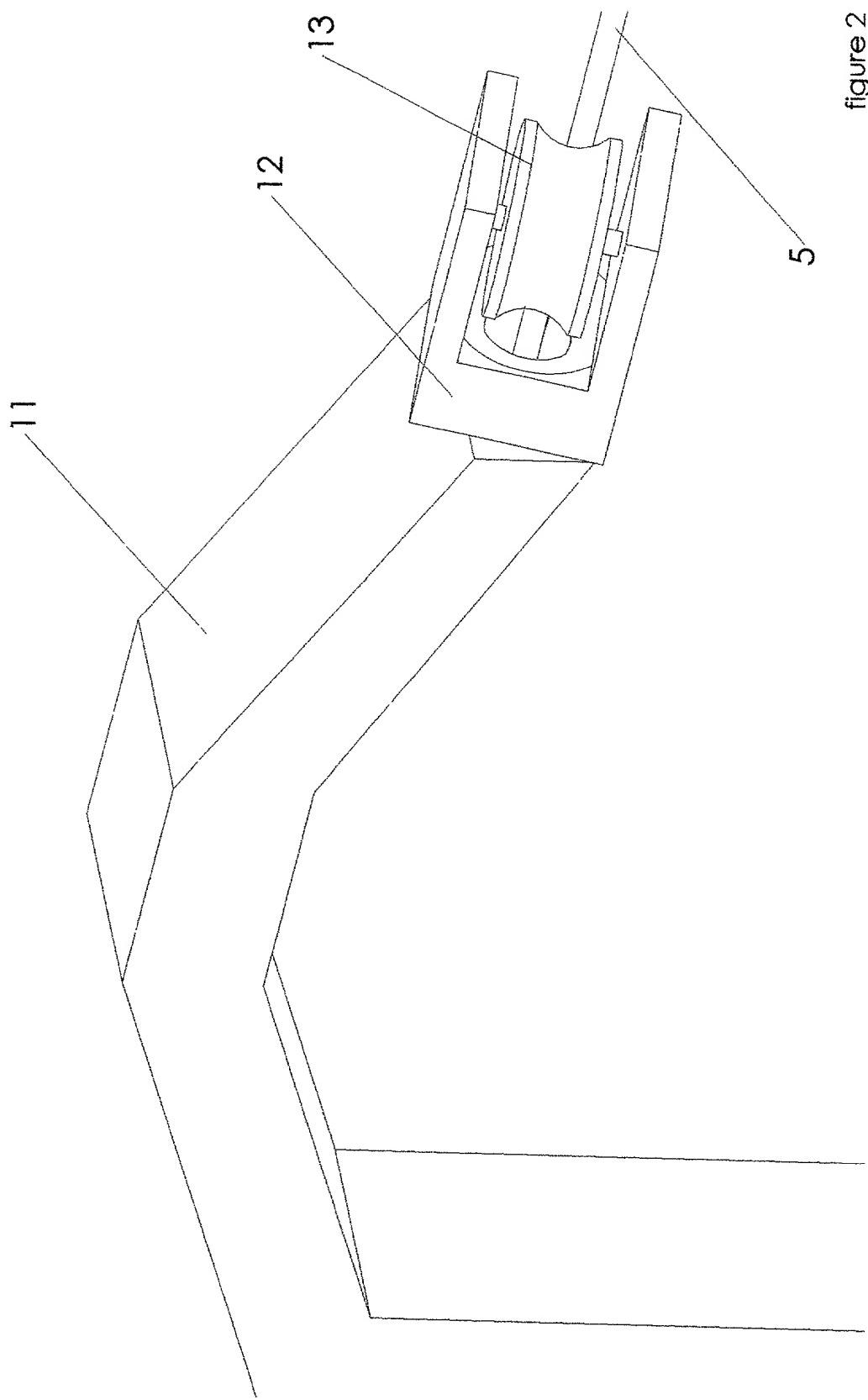


figure 3

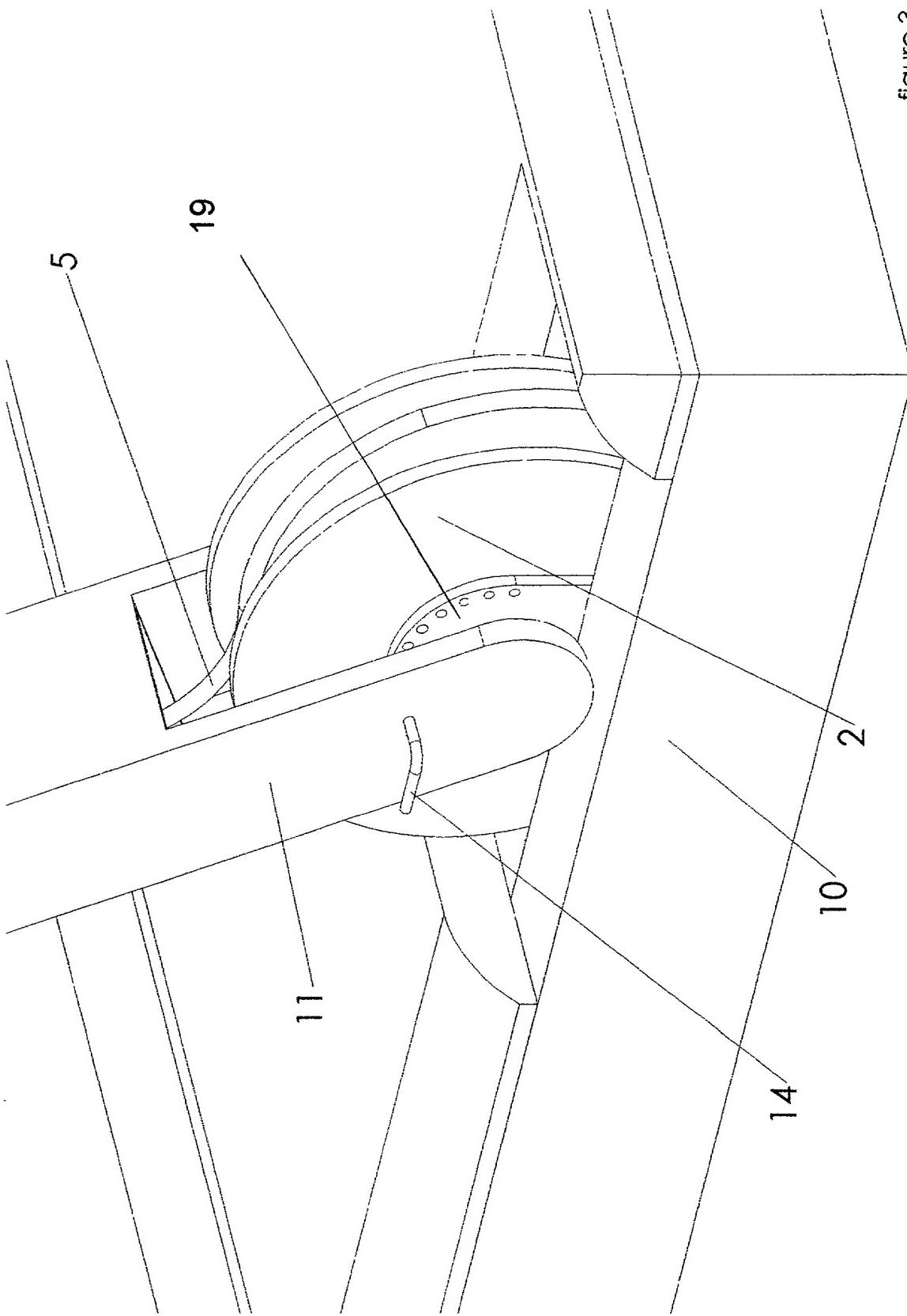


figure 4

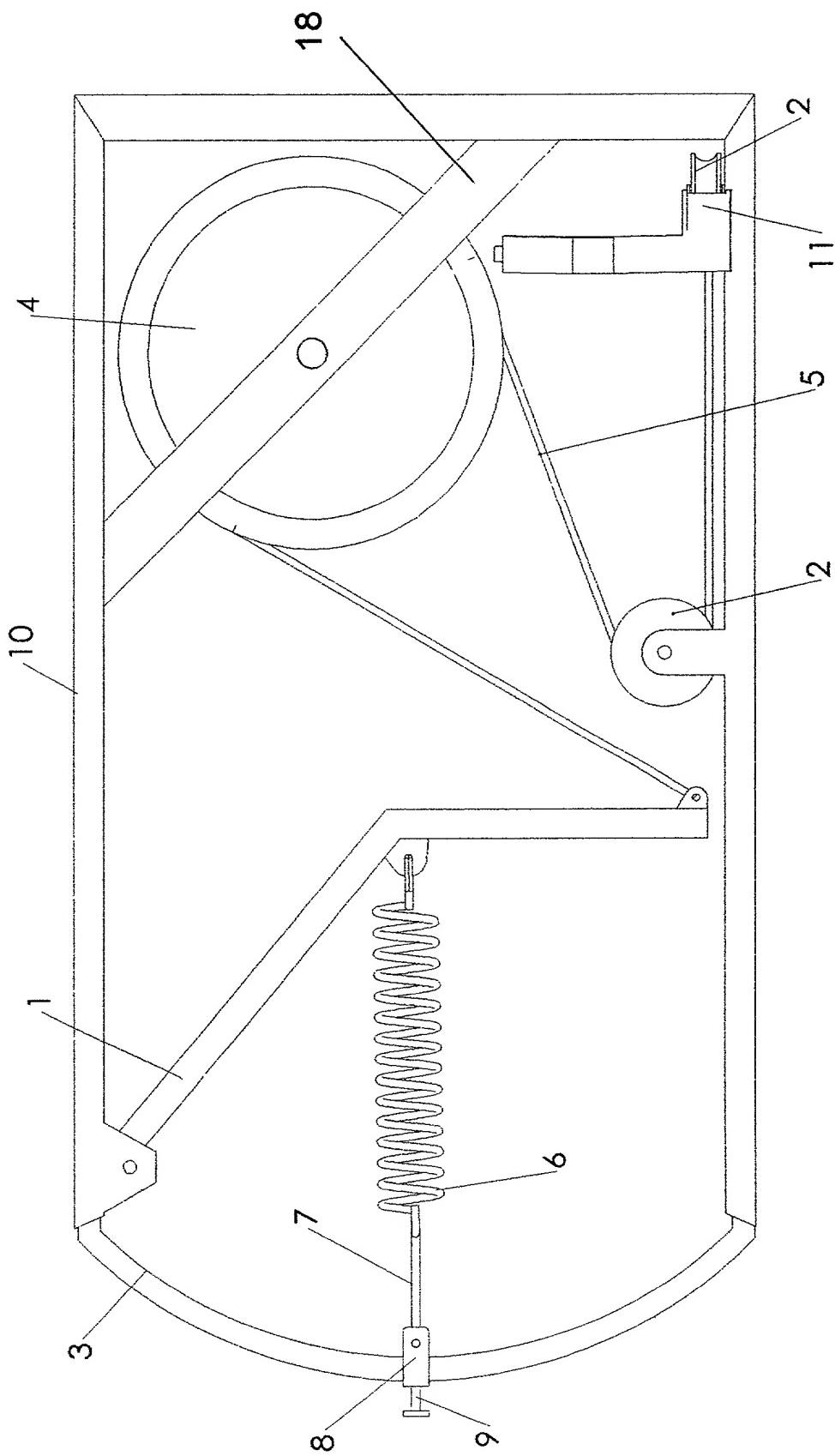


figure 5

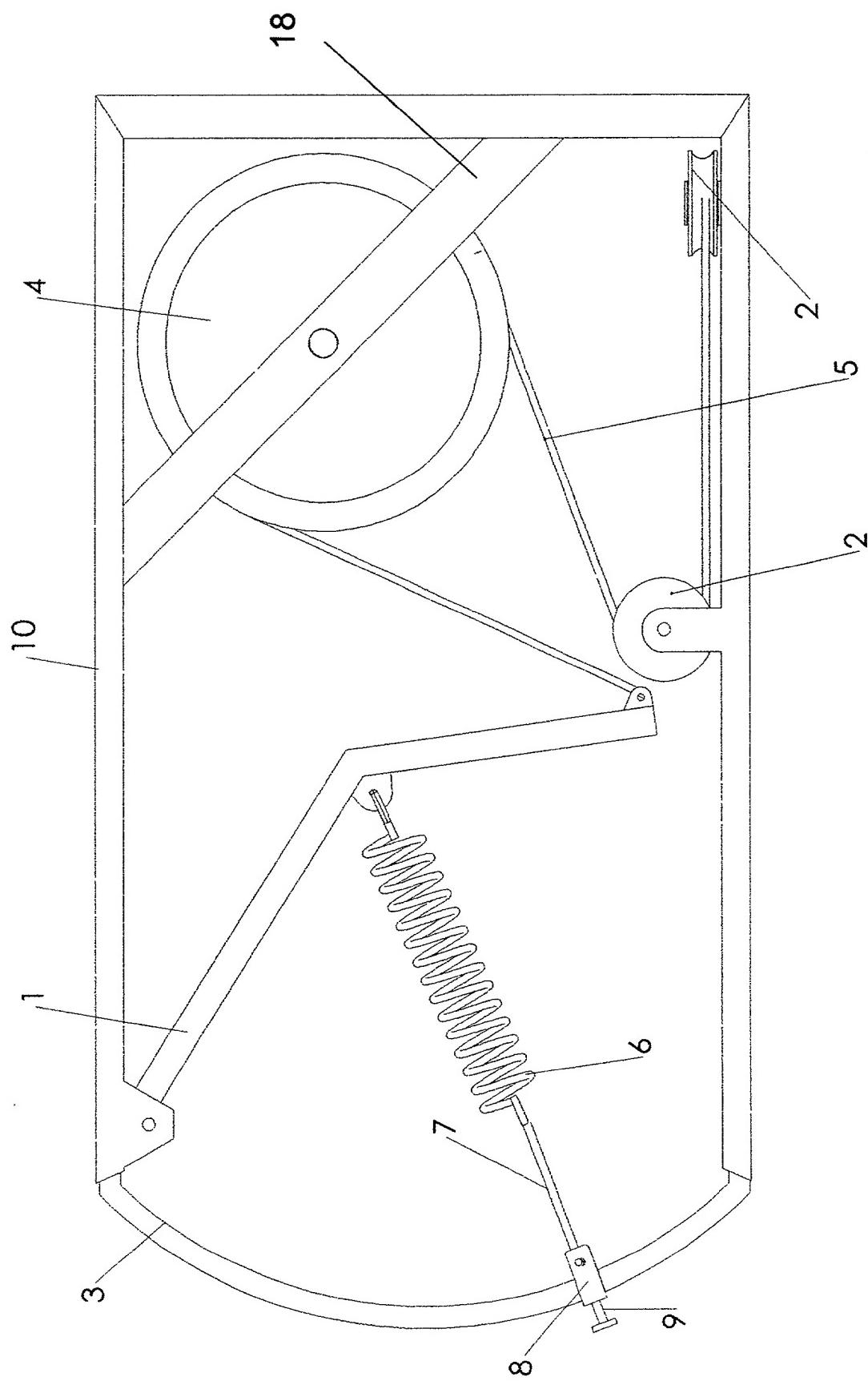


figure 6

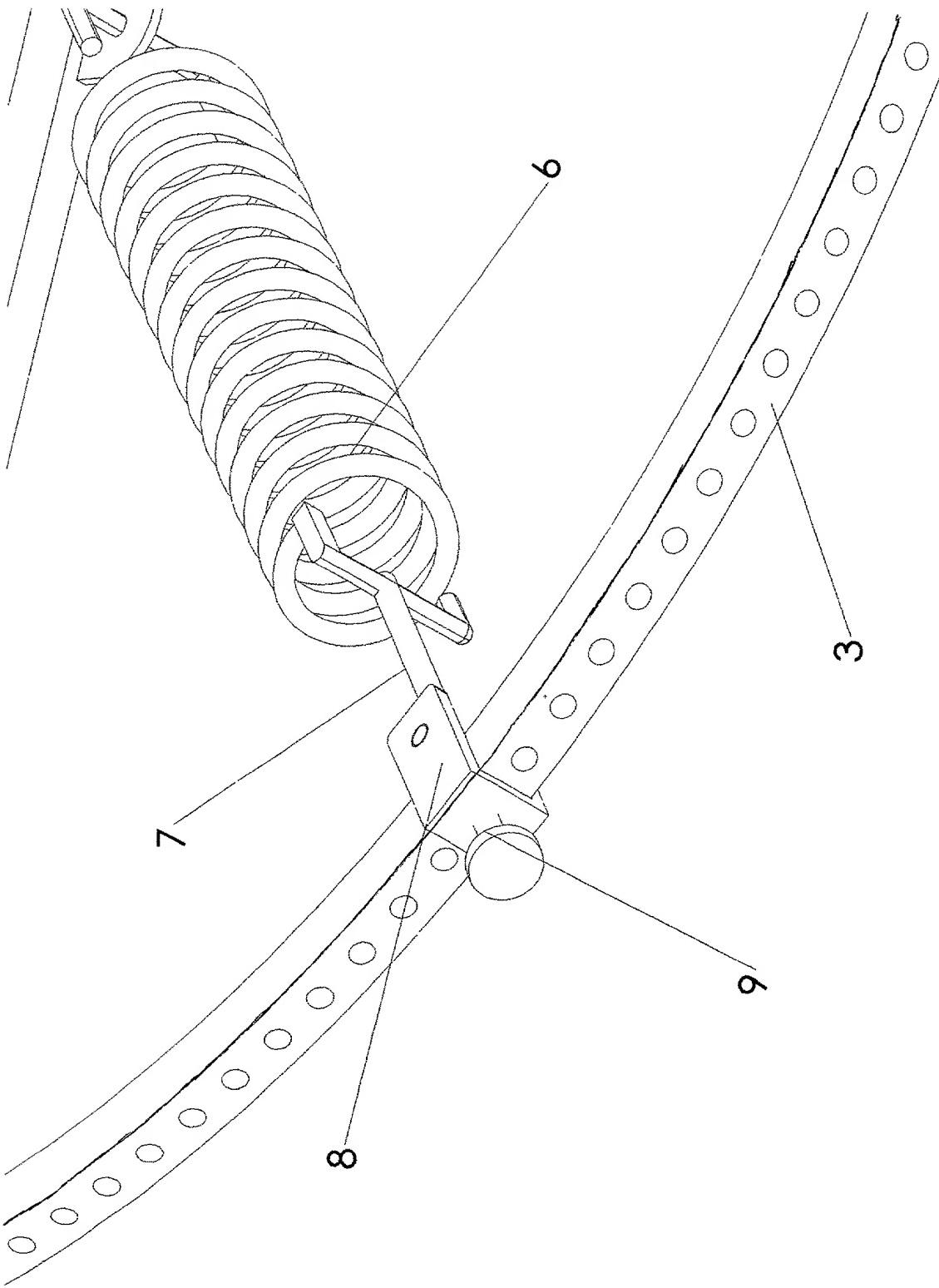


figure 7

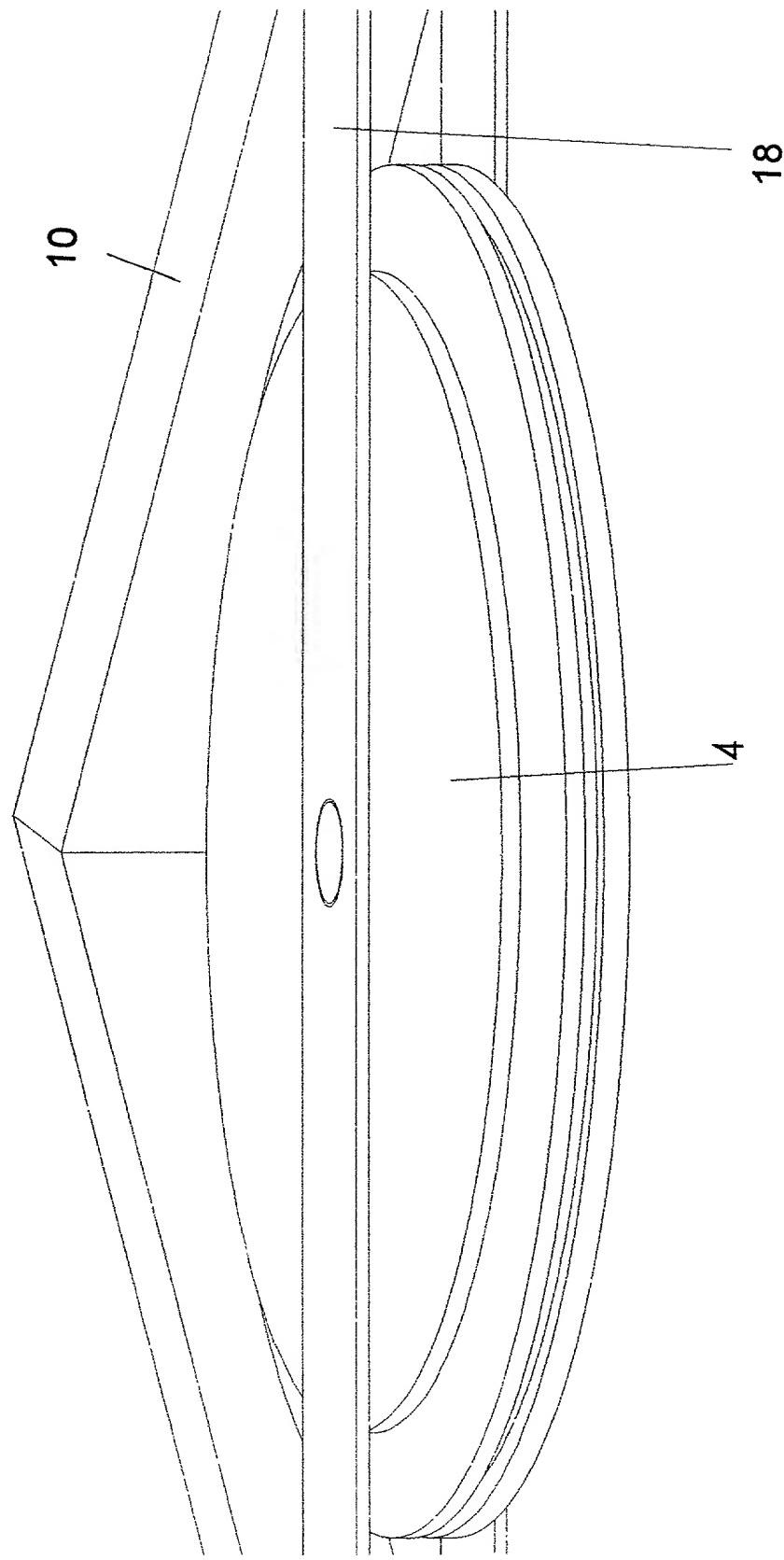


figure 8

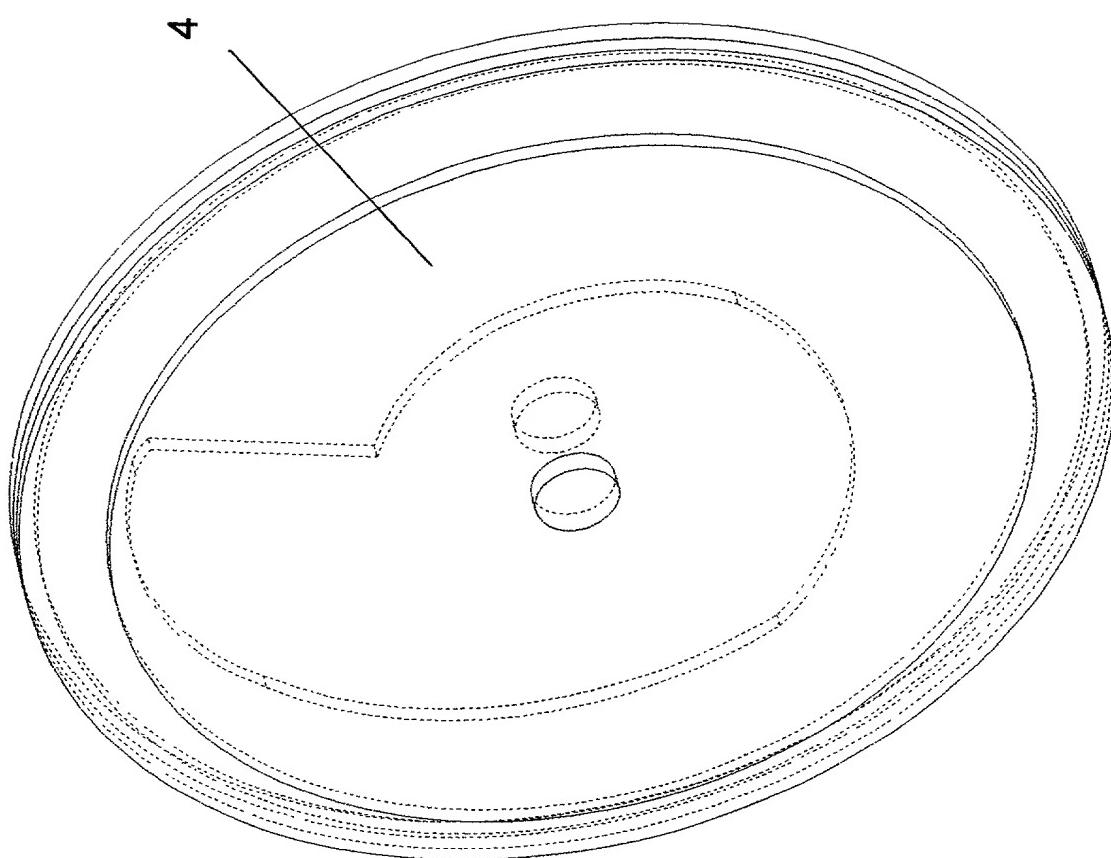
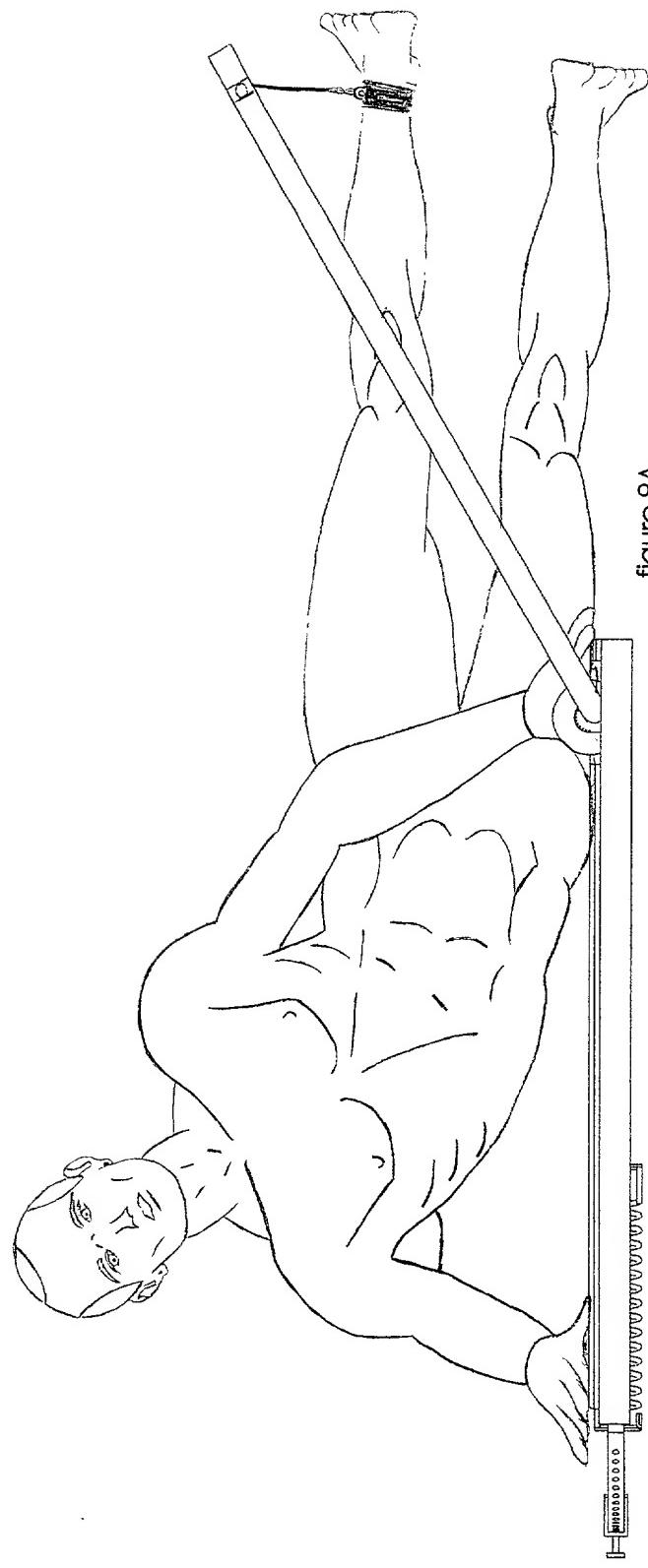


figure 9A



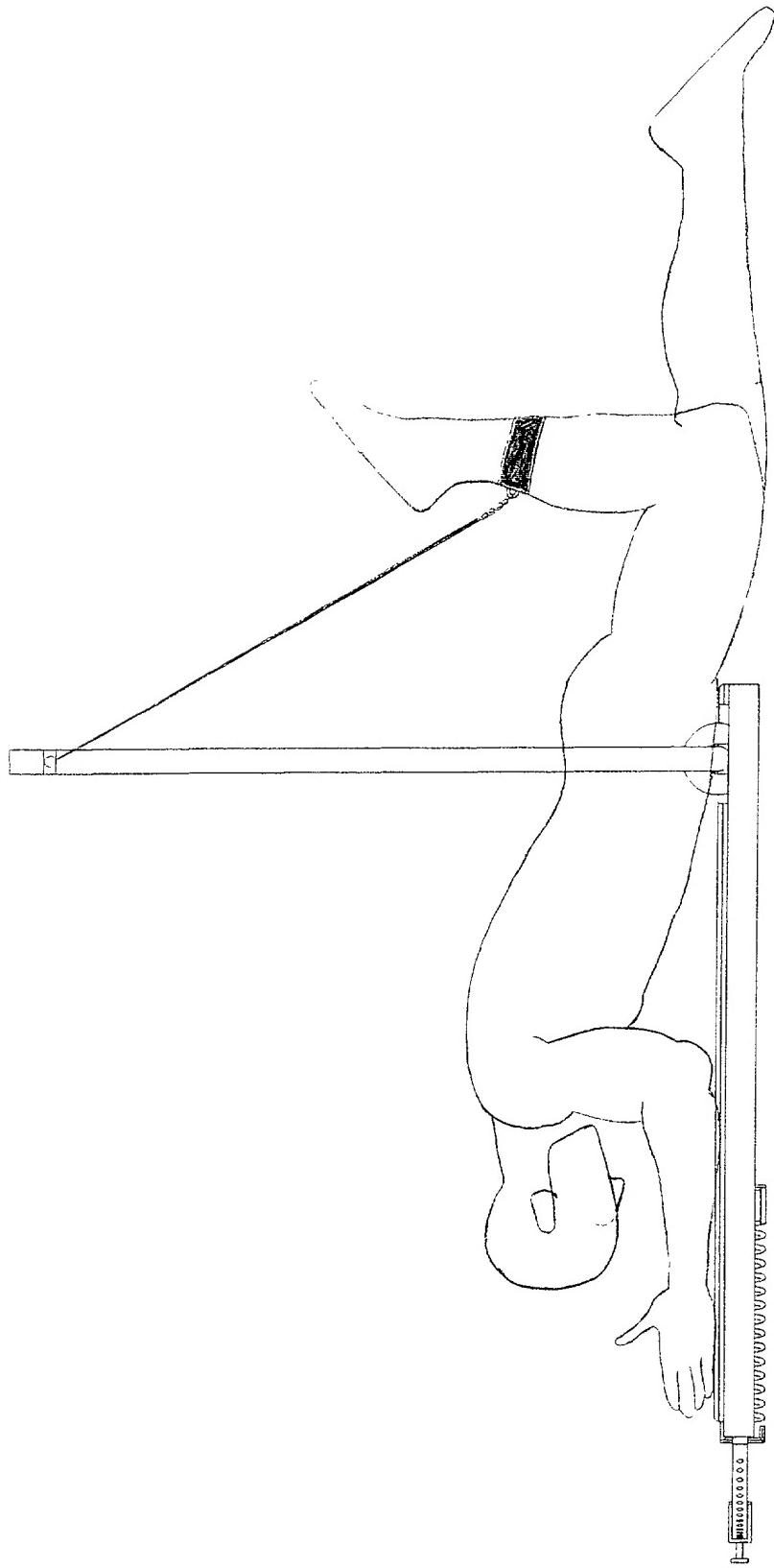


figure 9B

figure 9C

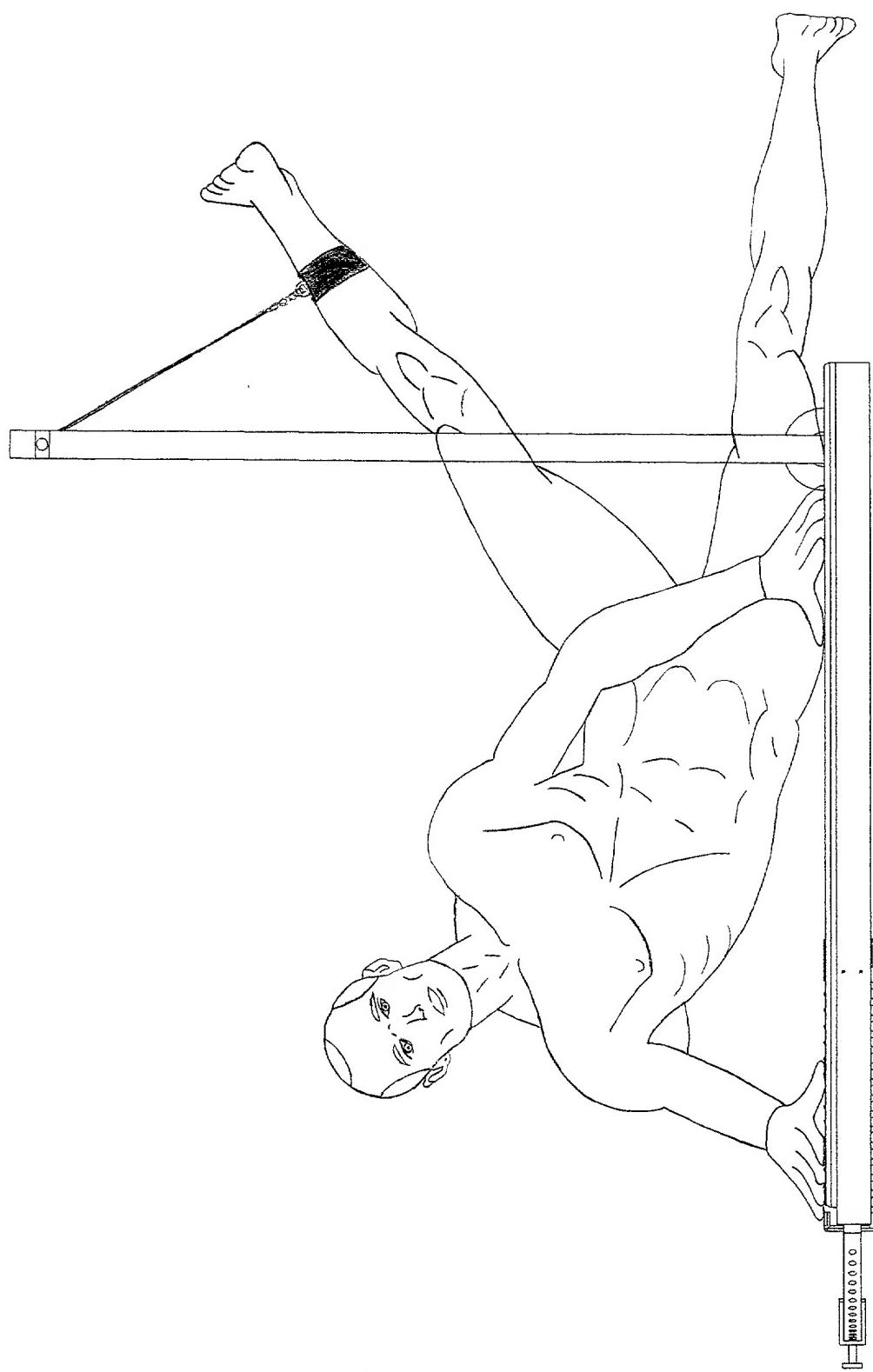
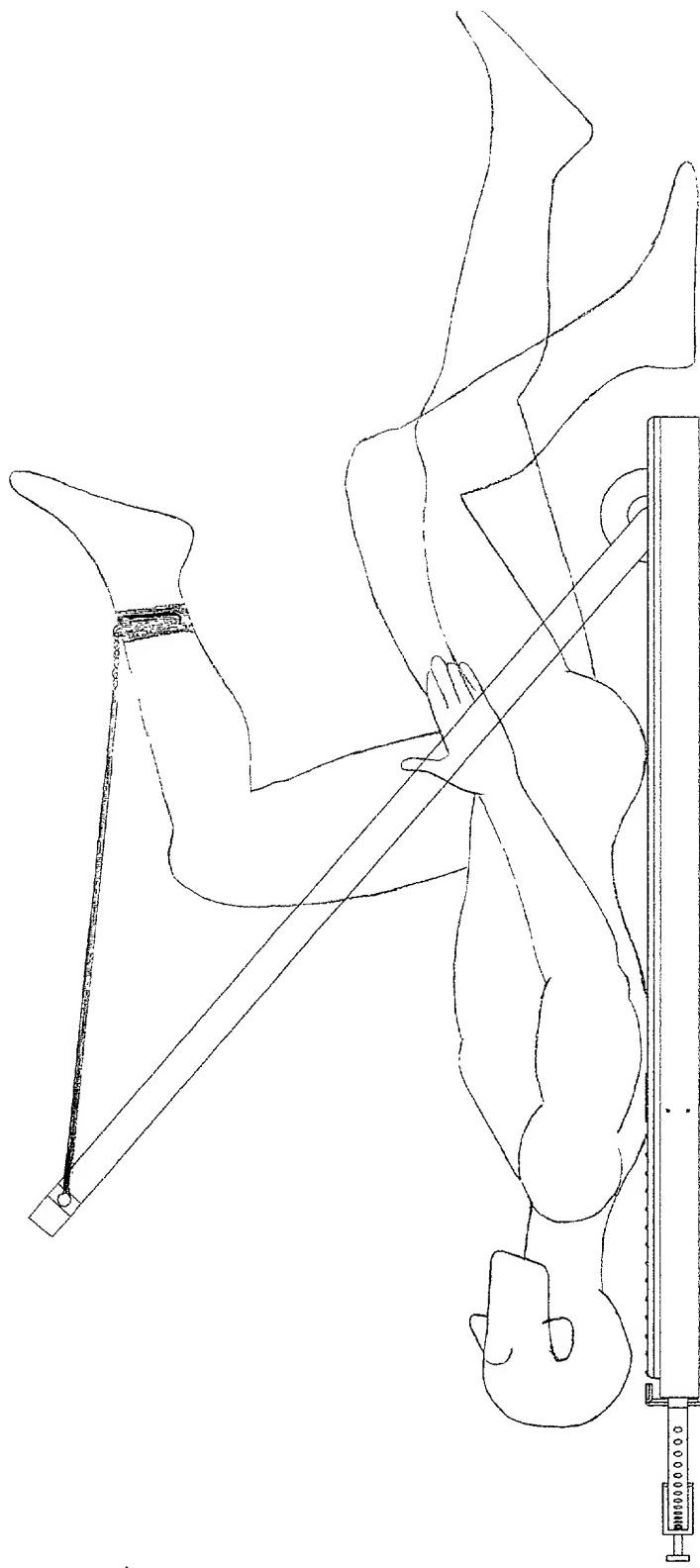


figure 9D



# DECLARATION FOR PATENT APPLICATION

Docket Number (Optional)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled  
Mechanical device used to make different, the specification of which

is attached hereto unless the following box is checked:

was filed on \_\_\_\_\_ as United States Application Number or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

## Prior Foreign Application(s)

Priority Claimed

Yes  No

Yes  No

Yes  No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Number)	(Filing Date)	(Status – patented, pending, abandoned)
(Application Number)	(Filing Date)	(Status – patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

MR. Florent Bergeron

Address all telephone calls to Mr. Florent Bergeron at telephone number (418) 576-7883

Address all correspondence to Mr. Florent Bergeron  
6225, Street Aster, Quebec, (Quebec), Canada,  
G2C 1Z3

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor (given name, family name) Mr. Florent Bergeron

Inventor's signature Florent Bergeron Date 09/27/00

Residence 6225, street Astar, Quebec, Citizenship Canadian

Post Office Address (Quebec) G2C 1Z3

Full name of second joint inventor, if any (given name, family name) \_\_\_\_\_

Second Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_

Post Office Address \_\_\_\_\_

Additional inventors are being named on separately numbered sheets attached hereto.